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Teerthanker Mahaveer Medical College & Research Centre
Department of Pulmonary Medicine
Minutes of Board of Studies Meeting
Course: Value Added Course
ARTERIAL BLOOD GAS ANALYSIS- A CASE BASED
LEARNING

Venue : Pulmonary medicine Seminar room & ICU

Date: 08.10.2022

Agenda of the Meeting.

1. Brief introduction of the proposed value added course.
2. Suggestion by the external expert for possible opportunities for the students and effective implementation of the course.
3. Any other matter (with the permission of chairman, BOS)

The following members were present in the meeting.

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| 1. Dr. Mazher Maqsood | Chairperson |
| 2. Dr. Rajesh Agarwal | External Member |
| 3. Dr. Gauri Paresh Godbole | Internal Member |
| 4. Dr. Pradeep Nirala | Internal Member |
| 5. Dr. Ravi Shankar Mishra | Internal Member |
| 6. Dr. Abhishek Kumar | Internal Member |

At the onset, the chairman welcomed the members of BOS & placed the agenda of the meeting.

Course Objectives

1. Blood gas & pH measurement are important investigation in critically ill patient therefore help the students to analyse ABG
2. Understand the acid base disorder
3. Underlying etiology.
4. Also to provide guidance to manage such patients

Course Outcomes:

1. Recognize normal values for pH, Pao₂, PaCO₂, Sao₂ & HCO₃
2. Explain significance of these values.
3. Relate the pH scale to acidosis & alkalosis.
4. Discuss the respiratory & metabolic mechanisms & their role in controlling the body's acid base balance
5. Interpret basic ABG values & relate these values to patient condition
6. Suggest therapies for acid base correction.

Course Completion guidelines

- Duration 16 hours. Flexible time table.
- Open for all students of the University.
- Each student shall have to complete attendance as per University norms
- Relaxation of attendance requirement up to 10% may be granted for valid reasons such as illness.
- Attendance of the participants should be as per University norms.
- Certificate on completion.

Course content

S. No.	Module No.	Course Topics		Hours
1	Module-I	Introduction (Abbreviation)		1
2	Module-II	Basics of ABG		1
3	Module-III	Step wise approach to acid base disorders	3a. Step 1-4 3b. Step 5 3c. Step 6 3d. Causes of various Acid base disorder 3e. summarizing ABG analysis 3f. Primary acid base disorders with secondary compensation 3g. Possible acid base disorders with normal pH	1 1 1 1 1 1 1
4	Module-IV	Step wise approach to oxygen abnormality	4a. Oxygen abnormalities 4b. Oxygen dissociation curve	1 1
5	Module-V	How to collect ABG		1
6	Module-VI	Cases		5

*Hours include both theory and Practical
Practical shall be in the form of :-

1. ABG sample collection in ICU
2. Case based approach of ABG interpretation.

Resource Faculty

1. Dr. Mazher Maqsood (Professor & HOD)
2. Dr. Gauri Pares Godbole (Professor)
3. Dr. Pradeep Nirala (Associate Professor)
4. Dr. Ravi Shankar Mishra (Associate Professor)
5. Dr. Abhishek Kumar (Assistant Professor)